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Harvard University

THE

DENTAL SCHOOL

1898-99

ANNUAL ANNOUNCEMENT

OF THE

DENTAL SCHOOL

OF

HARVARD UNIVERSITY

1898-99

CAMBRIDGE

Published by the University

1899

1898.

JULY.

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DENTAL SCHOOL CALENDAR.

1898.

Sept. 26, Monday.	Examinations for admission.
Sept. 26, Monday.	Undergraduate examinations begin.
Sept. 29, Thursday.	**Academic Year begins.** Registration of Students.
Nov. 1, Tuesday.	Last day for receiving dissertations for the Bowdoin Prizes.
Nov. 24, Thursday.	Thanksgiving Day: a holiday.

Recess from Dec. 23, 1898, to Jan. 2, 1899, inclusive.

1899.

Jan. 1, Sunday.	Last day for receiving dissertations for the Boylston Medical Prizes.
Feb. 1, Wednesday.	**Second half-year begins.**
Feb. 22, Wednesday.	Washington's Birthday: a holiday.

Recess from April 16 to April 22, inclusive.

April 29, Saturday.	Last day for receiving applications from students in the Professional Schools to be qualified for the degree of A.M. in 1899.
May 1, Monday.	Last day for receiving dissertations for the Dante, Toppan, and Sumner Prizes.
May 30, Tuesday.	Memorial Day: a holiday.
June 1, Thursday.	Undergraduate examinations begin.
June 27, Tuesday.	Examinations for admission.
June 28, Wednesday.	**Commencement.**

SUMMER VACATION OF THIRTEEN WEEKS, FROM COMMENCEMENT DAY TO SEPTEMBER 27, INCLUSIVE.

Sept. 21, Thursday.	Undergraduate examinations begin.
Sept. 25, Monday.	Examinations for admission.
Sept. 28, Thursday.	**Academic Year begins.**
Nov. 1, Wednesday.	Last day for receiving dissertations for the Bowdoin Prizes.
Nov. 23, Thursday.	Thanksgiving Day: a holiday.

ADMINISTRATIVE OFFICERS.

THE UNIVERSITY.

President: CHARLES WILLIAM ELIOT, LL.D.
Office, 5 University Hall, Cambridge.

Treasurer: CHARLES FRANCIS ADAMS, 2d, A.B., LL.B.

Comptroller: ALLEN DANFORTH, A.M.
The office of the Corporation (and of the Treasurer and the Comptroller) is at 50 State Street, Boston. Office hours, 10 A.M. to 2 P.M., Saturday 10 A.M. to 12 M.

Bursar: CHARLES FRANK MASON, A.B.
Office, Wadsworth House, Cambridge. Office hours, 9 A.M. to 1 P.M.

Librarian: WILLIAM COOLIDGE LANE, A.B.
Office, Gore Hall, Cambridge.

Director of Hemenway Gymnasium: DUDLEY ALLEN SARGENT, M.D., S.D.
Office, Hemenway Gymnasium, Cambridge.

Regent: GEORGE ALONZO BARTLETT, A.M.
Office, 5 University Hall, Cambridge.

Corresponding Secretary: RICHARD COBB, A.B.
Office, 5 University Hall, Cambridge. Office hours, daily, 9 A.M. to 10 A.M.

Publication Agent: JOHN BERTRAM WILLIAMS, A.B.
Office, 2 University Hall, Cambridge. Office hours, 9 A.M. to 5 P.M., Saturday 9 A.M. to 12.30 P.M.

THE FACULTY OF ARTS AND SCIENCES.

The Offices of this Faculty and of the Departments under its charge at Nos. 4, 5, 10, and 16, University Hall, Cambridge, are open on weekdays, except Saturdays from 9 A.M. *to* 1 P.M., *and on Saturdays from* 9 A.M. *to* 12 M. *Nos. 5, 10, and 16 are also ordinarily open on weekdays except Saturdays, from* 2 *to* 4 P.M.

Dean of the Faculty of Arts and Sciences: CLEMENT LAWRENCE SMITH, A.M., LL.D.
Office, 5 University Hall.

Dean of the Graduate School: JOHN HENRY WRIGHT, A.M.

Office, 10 University Hall. Office hours, Monday, Thursday, 3.30 P.M. to 4.30 P.M.

Dean of Harvard College: LE BARON RUSSELL BRIGGS, A.M.

Office, 4 University Hall. Office hours, Monday, Tuesday, Friday, 10 A.M. to 12.30 P.M.

Dean of the Lawrence Scientific School: NATHANIEL SOUTHGATE SHALER, S.D.

Office, 16 University Hall. Office hours, daily, 9 A.M., except Saturday.

Recording Secretary and Secretary of Appointment Committee: BYRON SATTERLEE HURLBUT, A.M.

Office, 5 University Hall. Office hours, daily, 9 A.M. to 10 A.M. Monday, Tuesday, Friday, Saturday, 9 A.M. to 12 M.

Chairman of the Committee on Special Students: HUGO KARL SCHILLING, PH.D.

Office, 4 University Hall. Office hour, daily, 12–12.30 P.M.

Chairman of the Committee on Admission from other Colleges: ARTHUR RICHMOND MARSH, A.B.

Office, 10 University Hall. Office hours, Tuesday, 12.15 P.M., Thursday 2 P.M.

Recorder of the Faculty of Arts and Sciences: GEORGE WASHINGTON CRAM, A.B.

Office, 4 University Hall. Office hours, 9 A.M. to 1 P.M. Saturday 9 A.M. to 12 M.

Secretary of the Lawrence Scientific School and Clerk of the Summer School: MONTAGUE CHAMBERLAIN.

Office, 16 University Hall. Office hours, 9 A.M. to 4 P.M.; Saturday, 9 A.M. to 12 M.

LABORATORIES AND MUSEUMS ASSOCIATED WITH THE FACULTY OF ARTS AND SCIENCES.

Director of the Chemical Laboratory: HENRY BARKER HILL, A.M.

The Chemical Laboratory is in Boylston Hall.

Director of the Jefferson Physical Laboratory: JOHN TROWBRIDGE, S.D.

The Jefferson Physical Laboratory is on Holmes Field.

Director of the Psychological Laboratory: HUGO MÜNSTERBERG, PH.D., M.D.

The Psychological Laboratory is in Dane Hall.

In charge of the Museum of Comparative Zoölogy: WILLIAM MCMICHAEL WOODWORTH, PH.D.

In charge of the Botanical Museum: George Lincoln Goodale, M.D., LL.D.

The Botanical Laboratories are in the same building.

Curator of the Mineralogical Museum: John Eliot Wolff, Ph.D.

Curator of the Peabody Museum of Archaeology and Ethnology: Frederic Ward Putnam, A.M., S.D.

Curator of the Semitic Museum: David Gordon Lyon, Ph.D.

The above Museums are between Oxford Street and Divinity Avenue.

Director of the William Hayes Fogg Museum of Art and Curator of the Gray Collection of Engravings: Charles Herbert Moore, A.M.

The Fogg Museum of Art is on Cambridge Street.

Director of the Botanic Garden: George Lincoln Goodale, M.D., LL.D.

Curator of the Gray Herbarium: Benjamin Lincoln Robinson, Ph.D.

The Herbarium and Botanic Garden are at the corner of Garden and Linnaean Streets.

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Dean of the Faculty of Divinity: Charles Carroll Everett, D.D., LL.D., Office, 1 Divinity Library, Cambridge. Office hours Monday, Wednesday, Friday, 12 M., Tuesday, Thursday, Saturday, 10 A.M.

Secretary of the Faculty of Divinity, and *Librarian of the Divinity School:* Robert Swain Morison, A.M., S.T.B.

Office, Divinity Library, Cambridge. Office hours, daily, 9 A.M. to 1 P.M.

Dean of the Faculty of Law: James Barr Ames, A.M., LL.B.

Office, Austin Hall, Cambridge.

Secretary of the Faculty of Law: Eugene Allen Gilmore, A.B.

Office, Austin Hall, Cambridge.

Librarian of the Law School: John Himes Arnold.

Office, Austin Hall, Cambridge.

Dean of the Faculty of Medicine: William Lambert Richardson, A.M., M.D.

Office, Harvard Medical School, corner of Boylston and Exeter Streets, Boston. Office hours, Tuesday, Friday, 12.15 P.M. to 1 P.M.

Secretary of the Faculty of Medicine: Charles Montraville Green, M.D.

Office, Harvard Medical School, corner of Boylston and Exeter Streets, Boston. Office hours, Monday, Thursday, 12 M. to 1 P.M.

Dean of the Faculty of Dental Medicine: EUGENE HANES SMITH, D.M.D.
The Dental School is on North Grove Street, Boston. The office of the Dean is at 283 Dartmouth Street, Boston. Office hours, 9 A.M. to 4 P.M.

Curator of the Dental Museum: WALDO ELIAS BOARDMAN, D.M.D.
Office, 184 Boylston Street, Boston.

Dean of the Faculty of Veterinary Medicine: CHARLES PARKER LYMAN, F.R.C.V.S.
Office, 52 Village Street, Boston. Office hours, 10 A.M. to 12 M. Daily.

Surgeon in charge of Veterinary Hospital: FREDERICK HUNTINGTON OSGOOD, M.R.C.V.S.
The Hospital is at 50 Village Street, Boston. Office hour, 12 M. Daily.

Dean of the Bussey Institution: FRANCIS HUMPHREYS STORER, S.B., A.M.
The Bussey Institution is in Jamaica Plain. The nearest railway and telegraph station is Forest Hills, on the Boston and Providence Division of the N.Y., N.H., and Hartford Railroad.

Superintendent of the Bussey Farm: EDMUND HERSEY.
The post-office address of the Farm Superintendent is Roslindale.

Director of the Arnold Arboretum: CHARLES SPRAGUE SARGENT, A.B.
The Arnold Arboretum is in Jamaica Plain. The nearest railway and telegraph station is Forest Hills, on the Boston and Providence Division of the N.Y., N.H. & Hartford Railroad.

Director of the Astronomical Observatory: EDWARD CHARLES PICKERING, LL.D.
The Observatory is at the corner of Garden and Bond Streets, Cambridge.

THE DENTAL SCHOOL,

BOSTON.

FACULTY.

CHARLES W. ELIOT, LL.D., *President.*

EUGENE H. SMITH, D.M.D., *Dean* and *Professor of Mechanical Dentistry and Orthodontia.*

HENRY P. BOWDITCH, M.D., LL.D., *Professor of Physiology.*

J. COLLINS WARREN, M.D., LL.D., *Professor of Surgery.*

THOMAS DWIGHT, M.D., LL.D., *Professor of Anatomy.*

THOMAS FILLEBROWN, M.D., D.M.D., *Professor of Operative Dentistry and Oral Surgery.*

CHARLES A. BRACKETT, D.M.D., *Professor of Dental Pathology.*

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HAROLD C. ERNST, M.D., *Professor of Bacteriology.*

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WILLIAM P. COOKE, D.M.D., *Instructor in Crown and Bridge Work, and in Metallurgy.*

WILLIAM H. POTTER, D.M.D., *Lecturer in Operative Dentistry.*

FRANKLIN DEXTER, M.D., *Assistant Professor of Anatomy.*

OTHER INSTRUCTORS.

EZRA F. TAFT, D.M.D., *Instructor in Operative Dentistry.*

FORREST G. EDDY, D.M.D., *Instructor in Operative Dentistry.*

GEORGE H. MONKS, M.D., *Instructor in Surgical Pathology.*

EDWARD W. TAYLOR, M.D., *Instructor in Neurology.*

JULIUS G. W. WERNER, D.M.D., *Clinical Instructor in Operative Dentistry.*

DWIGHT M. CLAPP, D.M.D., *Clinical Lecturer in Operative Dentistry.*

EDWIN C. BLAISDELL, D.M.D., *Instructor in Operative Dentistry.*

WALDO E. BOARDMAN, D.M.D., *Instructor in Operative Dentistry*, and *Curator of the Dental Museum*, and *Librarian*.

FREDERICK BRADLEY, D.M.D., *Instructor in Operative Dentistry*.

HENRY L. UPHAM, D.M.D., *Instructor in Operative Dentistry*.

ARTHUR H. STODDARD, D.M.D., *Clinical Lecturer in Mechanical Dentistry*.

PATRICK W. MORIARTY, D.M.D., *Instructor in the Mechanical Treatment of Fractured Jaws and Cleft Palates*, and *Demonstrator of Mechanical Dentistry*.

HARRY O. BIXBY, D.M.D., *Instructor in Mechanical Dentistry*.

ARTHUR W. ELDRED, D.M.D., *Instructor in Mechanical Dentistry*.

JOSEPH T. PAUL, D.M.D., *Demonstrator of Operative Dentistry*.

ALLEN S. BURNHAM, D.M.D., *Instructor in Mechanical Dentistry*.

NATHAN P. WYLLIE, D.M.D., *Instructor in Materia Medica and Anaesthesia*.

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ASHER H. StC. CHASE, D.M.D., *Instructor in Mechanical Dentistry*.

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EDWIN L. FARRINGTON, D.M.D., *Assistant Demonstrator of Operative Dentistry*.

HARRY W. HALEY, D.M.D., *Instructor in Mechanical Dentistry*.

ROBERT J. McMEEKIN, D.M.D., *Assistant Demonstrator of Mechanical Dentistry*.

DWIGHT WARD DICKINSON, D.M.D., *Instructor in Operative Dentistry*.

WALTER H. WHITE, D.M.D., *Instructor in Operative Dentistry*.

NEWTON S. BACON, A.B., *Assistant in Chemistry*.

JOHN DANA DICKINSON, D.M.D., *Clinical Instructor in Mechanical Dentistry*.

Standing Committees.

Executive Committee — The Dean, Drs. Fillebrown, Brackett, Briggs, Stanton, Cooke, Potter.

Admission Examination — Drs. Stanton, Brackett, Briggs, Potter.

Building — Drs. Fillebrown, Bowditch, Smith.

Advertising and Catalogue — The Dean, Drs. Stanton, Cooke.

Courses of Study — Drs. Briggs, Brackett, Stanton.

Museum — Drs. Fillebrown, Stanton, Cooke.

THE DENTAL SCHOOL.

Third Year.

NAME.	RESIDENCE.	PRESENT ADDRESS.*
Barker, Percy Lewis,	*Portland, Me.*	195 St. Botolph St.
Barrell, George Emerson,	*York Corner, Me.*	442 Broadway, Cambridge.
Boyle, Harold Nickerson,	*Lynnfield Center,*	Lynnfield Center.
Bristol, Burt Myron,	*Vergennes, Vt*	23 Dartmouth St.
Carle, Ernest Earl,	*Malden,*	18 Barstow St., Malden.
Cobb, Charles Davis,	*Cambridge,*	36 Orchard St., Cambridge.
Currie, Frank Thomas,	*Cambridge,*	376 Harvard St., Cambridge.
Crofwell, James Bernard,	*Providence, R.I.*	3309 Washington St., [Jamaica Plain.
Davis, Joseph Walter,	*Worcester,*	65 St. Botolph St., Suite 3.
Dawes, Franklin Everett,	*Newport, R.I.*	West Hingham.
Donovan, John Matthew,	*Dorchester,*	32 Auckland St., Dorchester.
Esgate, Thomas Dorsey,	*So. Tamworth, N.H.*	18 Leonard Ave., [Cambridge.
Fallon, William Edward,	*Boston,*	153 W. Concord St.
Federlin, Emil Julius,	*New York, N.Y.*	374 Columbus Ave.
Fincke, Fritz Heinrich, M.D. (*Univ. of Md.*) 1891,	*Schwerin, Germany,*	138 Charles St.
Fitzgerald, James Joseph,	*Boston,*	3 Dayton Ave., Roxbury.
Fitzgerald, Terence Richard,	*Dorchester,*	Field's Corner.
Gordon, Charles Sumner,	*Worcester,*	216 W. Springfield St.
Hallet, Everett Kendall,	*Roxbury,*	11 Mayfair St., Roxbury.
Hatfield, Hugh Kerr,	*Boston,*	129 Marlboro St.
Heinrich, Oscar John,	*Rockford, Ill.*	149A Tremont St.
Hovestadt, Julius Frank,	*Central Station,*	2 Park Sq.
King, Elbridge Decosmo,	*Salisbury, N.B.*	800 Mass. Ave., Cam- [bridge.
Kyes, Karl Sumner,	*Peterboro, N.H.*	Ipswich.
Leighton, Carlton Butler,	*Portland, Me.*	23 Allston St.
Libby, Arthur Allen,	*Boston,*	687 Boylston St.
McHale, Thomas Francis,	*Providence, R.I.*	130 Huntington Ave.
McKenna, Charles Henry,	*Boston,*	135 Lauriet Ave., Dorchester.
Miller, Archibald, Jr.,	*Hartford, Conn.*	57 Hancock St.

* Addresses are in Boston, unless stated to be elsewhere.

Nathan, Alfred Cooper, D.D.S. (*Phila. Dent. Coll.*) 1898,	*Sydney, Australia.*	592 Columbus Ave.
Nesbett, Norman Beverly,	*Acushnet,*	415 Columbus Ave.
Patch, Charles Warren,	*Gloucester,*	190 W. Brookline St.
Pemberton, James Henry,	*Fall River,*	83 Harrison St., Fall River.
Phillips, William Eben,	*Melrose,*	37 Everett St., Melrose.
Pierce, Frank Derby,	*W. Roxbury,*	Centre St., W. Roxbury.
Power, James Edward,	*Providence, R.I.*	130 Huntington Ave.
Reed, Herbert Arthur,	*No. Attleboro,*	73 Dartmouth St.
Richmond, George Danforth,	*W. Medford,*	45 Bowers St., W. Medford.
Robinson, Charles Bradford,	*New York, N. Y.*	374 Columbus Ave.
Ross, Charles Gilbert,	*Linden,*	Linden.
Rowe, Willard Mariner,	*Boston,*	92 Bowdoin St.
Samsioe, Carl Axel Robert,	*Stockholm, Sweden,*	86 Mt. Vernon St.
Spinney, David Frederick,	*Boston,*	75 Aldie St., Allston.
Thompson, Edwin Silas,	*Willard, Me.*	18 Barstow St., Malden.
Wentworth, Evan Parker,	*So. Boston,*	10 Gates St., So. Boston.
White, Edward Patrick,	*Cambridge,*	20 Austin St., Cambridge.

SECOND YEAR.

Albertson, Frank,	*Worcester,*	73 Dartmouth St.
Baldwin, George Chandler,	*San Francisco Cal.*	39 St. Botolph St.
Barney, Roland Safford,	*Southboro,*	Southboro.
Bartlett, George Oliver,	*Worcester,*	663 Tremont St.
Brown, Daniel Crawford,	*Ruthville, Va.*	222 W. Canton St.
Burns, Thomas Morgan,	*Boston,*	25 Rutland Sq.
Carrier, Stephen Frederick,	*Roxbury,*	87 Blue Hill Ave., Roxbury.
Cobb, Henry Willis,	*Mansfield,*	49 So. Main St., Mansfield.
Davis, Horace Amos, PH.B. (*Tufts Coll.*) 1897,	*Dorchester,*	407 Seaver St.
Day, Frederick Wilbur,	*Gardiner, Me.*	2322 Mass. Ave.
Esgate, John Irving,	*So. Tamworth, N.H.*	12 Ellsworth Ave., [Cambridge.
Estabrooks, John Wesley,	*Wollaston,*	Wollaston.
Fuller, Louis Dinsmore Holman,	*Saxonville,*	28 Montgomery St.
Glazier, Clarence Marshall,	*Roxbury,*	16 Copeland St., Roxbury.
Hersey, George Murray,	*Hingham,*	South St., Hingham.
Hurley, Dennis Joseph,	*Dedham,*	Border St., Dedham.
Jameson, Charles Allen,	*Wollaston,*	Wollaston.
Jenkins, Loyal Lovejoy,	*E. Boston,*	110 Trenton St., E. Boston.
Kent, Edwin Newell,	*Boston,*	79 High St., Charlestown.
Mackintosh, Albert Ira,	*Hyde Park,*	12 Williams Ave., Hyde Park.
McPherson, Charles Winthrop,	*Medford,*	20 Garden St., Medford.

Martin, Dwight Clifford,	*Boston*,	78 W. Rutland Sq.
Marvel, William Wilkinson, Jr.	*Newport, R.I.*	82 Huntington Ave.
Naylor, Leslie Herbert,	*Dorchester*,	92 Auckland St., Dorchester.
Parshley, Burt Wilbur,	*Dorchester*,	17 Cushing Ave., Dorchester.
Payne, Ralph Wheelwright,	*Greenfield*,	70 Pinckney St.
Randall, Samuel L. Doherty,	*Dorchester*,	54 Elmo St., Dorchester.
Rochette, Joseph Eugene,	*Worcester*,	12 Remington St., Cambridge.
Rodgers, Charles William,	*Troy, N. Y.*	109 Otis St., Cambridge.
Rogers, Arthur Verne,	*Brewer, Me.*	70 Pinckney St.
Ryan, John William,	*Cambridge*,	64 Plympton St., Cambridge.
Simmons, Henry Heims,	*Chelsea*,	833 Broadway, Chelsea.
Snow, Frank Winthrop,	*Providence, R.I.*	10 Rutland Sq.
Trueman, Nelson Gore,	*Boston*,	45 Westland Ave.
Watts, John Augustine,	*Coaticoc, P.Q.*	372 Dorchester St., So. Boston.
Wilson, Bryce Aughterson,	*Pawtucket*,	383 Boylston St.
Wolfe, Leonard Francis,	*No. Weymouth*,	Canton.

First Year.

Andrews, Fenimore Shute,	*Fitchburg*,	4 Oxford Terrace.
Belisle, Narcisse Alexandre,	*Worcester*,	12 Remington St., Cambridge.
Bliss, James Francis,	*Brockton*,	17 Yarmouth St.
Boutwell, Leslie Barnes,	*Cambridge*,	169 Huron Ave., Cambridge.
Breslin, James Edward, Jr.	*Cambridge*,	7 Willard St., Cambridge.
Bruce, Adelbert Melvin,	*Natick*,	49A Trowbridge St., Cambridge.
Buckley, Patrick Henry,	*Natick*,	3 Walcott St., Natick.
Constantinides, Miltiades Mechali,	*Cyprus, Asia*,	101 Appleton St.
Cutler, James Willoughby,	*Providence, R.I.*	1108 Westminster St., [Providence, R. I.
Davis, Walter Alonzo,	*Greenfield*,	288 Boylston St.
Davis, William Frederic, Jr.	*Woburn*,	11 Arlington Road, Woburn.
Donovan, John Patrick,	*Norwood*,	Norwood.
Dort, Wilson Case,	*Providence, R.I.*	1 Aspinwall Ave., Brookline.
Dunphy, James Patrick,	*Watertown*,	29 Common St., Watertown.
Eckert, John Edward,	*Cambridge*,	Beck Hall, Cambridge.
Elliott, Samuel Tuttle,	*Hyde Park*,	947 Hyde Park Ave, Hyde Park.
Fanning, Ellis Vinal,	*Brockton*,	1201 So. Main St., Brockton.
Freeman, Melvin Walter,	*So. Braintree*,	9 Alston St.
Friendly, Joseph Morse,	*Brookline*,	940 Beacon St.
Gallahue, John Joseph,	*So. Boston*,	239 3d St.
Gibbs, Frank Goodell,	*Burlington, Vt.*	700 Tremont St.
Gould, Rufus Henry,	*Worcester*,	W. H. 21, Cambridge.
Hackley, Clayton Niles,	*Brattleboro, Vt.*	561 Boylston St.

Hall, Fredrick George,	*Southbridge*,	13 Cleveland St., Cambridge.
Hall, Frederick Parkinson,	*Middletown, Conn.*	Harv. Dent. School.
Hammond, Ralph Wayne,	*Haverhill*,	11 Hancock St., Winchester.
Hammond, Thomas Frederick,	*Natick*,	441 No. Main St., Natick.
Hicks, Fred Burpee,	*Dorchester, N.B.*	359 Cambridge St., E. Cambridge.
Hopkins, Herbert Cornwell,	*Boston*,	235 Marlborough St.
Joslin, Charles Levi,	*Somerville*,	442 Broadway, Somerville.
King, George Leo,	*Portland, Me.*	232 Highland Ave., Somerville.
Loring, Burton Elmer,	*Worcester*,	4 Harrington Ave., Worcester.
Luther, Henry Harold,	*Newport, R.I.*	9 Concord Sq.
Maguire, Henry Stevens,	*Gloucester*,	521 Shawmut Ave.
McCarthy, Stephen Dennis,	*Dorchester*,	46 Robinson St.
McGourty, Edward Thomas,	*Worcester*,	9 Oak Ave., Worcester.
McMurray, Albert Thompson,	*Fredericton, N.B.*	133 Warren Ave.
Midgley, Albert Leonard,	*Worcester*,	118 Huntington Ave.
Miner, Walter Curtis,	*Roxbury*,	56 Mt. Pleasant Ave.
Pike, Charles Gilman,	*Dorchester*,	16 Virginia St.
Reinstein, Irving,	*Boston*,	168 Humboldt Ave., Roxbury.
Reoch, Norman Greene,	*Phenix, R.I.*	2 Westland Ave.
Rogers, Joseph Moulton,	*Roxbury*,	21 Linwood St., Roxbury.
Rogers, Melville Forrest,	*Charlestown*,	26 Green St., Charlestown.
Shinn, Paul Haywood,	*Cambridge*,	371 Broadway.
Smith, Harry Judson,	*Cottage City*,	48 Boston St., Somerville.
Smith, Joseph Warren, Jr.	*Andover*,	6 Follen St.
Tousey, Coleman, A.B., (*Tufts Coll.*) 1898.	*Tufts College*,	Tufts College.
Washburn, David Leland,	*Natick*,	Walnut Hill.
Watson, Allan Laforest,	*Lynn*,	19 Eastlake St., Lynn.
White, Emery William,	*Park City, Utah*,	288 Boylston St.
Whitehill, Robert,	*No. Attleboro*,	6 Blackwood St.
Whitmore, Chester Lambert,	*Detroit, Mich.*	131 Dartmouth St.
Wiswell, Foster Smith,	*Chelsea*,	104 Hawthorne St., Chelsea.
Woodbridge, Howard Frederick George,	*Fredericton, N.B.*	133 Warren Ave.
Yarrington, Herbert Harlan,	*Rutland, Vt.*	259 Norfolk St., Cambridge.

SUMMARY.

Third Year Students	46
Second Year Students	37
First Year Students	56
Total	139

THE DENTAL SCHOOL.

The Dental School of Harvard University is established in Boston.

The academic year begins on the Thursday following the last Wednesday in September, and ends on the last Wednesday in June. There is a recess beginning December 23, and ending January 2; and a spring recess of one week beginning on the Sunday next preceding the 19th of April, or on Sunday the 19th of April when that day falls on Sunday, and ending on the following Saturday, both days inclusive.

Instruction in this School is given throughout the academic year, by lectures, recitations, clinical teaching, and practical exercises, uniformly distributed. The course of instruction is progressive, and extends over three years, the teaching of one year not being repeated in the next.

The studies of the first year are pursued in connection with the classes in the Harvard Medical School, the student receiving instruction by the same professors at the same time and place with the medical students, and at the end of the year passing with them the examinations.

It is the object of the Faculty to present a complete course of instruction in the theory and practice of Dentistry; and for this purpose a well-appointed laboratory and infirmary are provided, and such arrangements made as insure an ample supply of patients. Clinical instruction is given by the professors and other instructors; and, under the direction of demonstrators, patients are assigned to the students, insuring to all opportunity of operating at the chair, and becoming by actual practice familiar with all the operations demanded of the dentist.

The Infirmary remains open, and one of the clinical instructors and a demonstrator are in attendance, daily, throughout the academic year, offering to students excellent facilities for acquiring practical knowledge and manipulative dexterity.

Students have access to the hospitals of the city; to the dissecting-room and museum of the Medical School; and also, *without additional charge, to the instruction and examinations given in any other department of the University, with the exception of exercises carried on in the special laboratories.*

That the time of study shall count as a full term, students of every class must present themselves within the first week of the term and register their names with the Dean.

REQUIREMENTS FOR ADMISSION.

All candidates for admission, except those who have passed an examination for admission to Harvard College or any reputable college of Letters or the Lawrence Scientific School, must present a degree in Letters, Science, or Medicine, from a recognized college or scientific school, or pass an examination in the following subjects:

1. English.
2. Physics.
3. Either Latin or French.
4. Either German, Algebra, Plane Geometry, Botany or Chemistry.

1. English. The candidate will be required to write a paragraph or two on each of several topics chosen by him from a considerable number, set before him on the examination paper. In 1899 the topics will be drawn from the following works: Goldsmith's Vicar of Wakefield; Hawthorn's House of the Seven Gables; Cooper's Last of the Mohicans; De Quincey's Flight of a Tartar Tribe.

The candidate is expected to read intelligently *all* the books prescribed. He should read them as he reads other books; he is expected, not to know them minutely, but to have freshly in mind their most important parts.

In every case the examiner will regard knowledge of the book as less important than ability to write English.

As additional evidence of preparation, the candidate may present an exercise book, properly certified by his instructor, containing compositions or other written work.

2. Physics. (1) A competent knowledge of Physics such as may be obtained from Gage's Elements of Physics, or any other High School Physics, or (2) a course of experiments, not less than forty in number, performed at school by the student. These must be selected from a list issued by the University under the title, "A Descriptive List of Elementary Exercises in Physics,"* or must be approved by the Department of Physics of Harvard College as the equivalent of those contained in this list.

3. Latin. The translation at sight of average passages from the first three books of Caesar's Commentaries on Gallic War, and the first two books of Virgil's Aeneid.

4. French and German. Translation at sight of easy prose.

5. Algebra, Plane Geometry, Botany and Chemistry.

The examination in Algebra will extend to Quadratic Equations; in Botany, will cover Gray's How Plants Grow; in Geometry, will include

* This list can be procured (price forty cents) of the Harvard Coöperative Society, or of Chas. W. Sever & Co., Booksellers, Cambridge.

the elements of Plane Geometry; and in Chemistry, Theoretical and Descriptive (Inorganic) Chemistry.

Students may be admitted to advanced standing upon passing a satisfactory examination in a *majority* of the studies already pursued by the class, but, before taking the degree, examinations in *all* the studies must have been satisfactorily passed.

Graduates of recognized dental schools will be admitted without examination to the courses in Operative and Mechanical Dentistry, but attendance on such courses does not entitle a student to examination for the degree nor to a certificate of attendance.

The examinations for admission are conducted in writing. In judging the work of the candidate, the spelling, grammar, and construction are considered.

The examination for admission is held at the Dental School, North Grove Street, Boston, on the Tuesday before the last Wednesday in June and on the Monday preceding the last Wednesday in September, beginning at 9 A.M.

No person will be examined for admission at any other than the regularly appointed time.

The entrance and first-year examinations will be allowed to foreign students who have passed *equivalent* examinations abroad, upon presentation of proper certificates from the examining boards vouching for the facts.

All persons intending to take the entrance examination must send their names to the Dean for registry at least two weeks previous to the day on which the examination is to take place.

REGISTRATION.

The academic year 1899–1900 begins on Thursday, September 28, 1899. All students register at the School on North Grove Street, on that day at 9 A.M.

COURSE OF INSTRUCTION.

The following is the plan of study in the successive years of the School: —

First Year. — Anatomy-dissection, Physiology, Histology and Embryology; General Chemistry, Medical Chemistry, and Bacteriology.

Second Year. — Oral Pathology, Operative Dentistry, Oral Surgery, Mechanical Dentistry, and Orthodontia; General and Dental Materia Medica and Therapeutics; Oral Anatomy and Physiology; Crown and Bridge Work and Metallurgy; practical work daily in the mechanical laboratory and in the operative infirmary.

Third Year. — Operative Dentistry, Oral Surgery, Mechanical Dentistry, and Orthodontia, Neurology, Surgical Pathology and Surgery, Crown and Bridge Work and Metallurgy; Dental Jurisprudence; practical work in operative infirmary and mechanical laboratory.

INSTRUCTION FOR 1898-99.

Anatomy.

Descriptive Anatomy. *Four times a week, till January Three times a week in January.* Professor DWIGHT. *Twice a week, after November.* Assistant Professor DEXTER. Recitations. *Once a week.* Dr. TENNEY.

Practical Anatomy, with exercises in Dissection. *Eight hours daily, from October 15 till May.* Demonstrations. Drs. BROOKS, TENNEY, LUND, J. B. BLAKE, LOTHROP, LORING, and YOUNG.

Physiology.

Systematic and Experimental Physiology. *Four times a week, during first half-year. Six times a week, during second half-year.* Professors BOWDITCH and W. T. PORTER.

Laboratory exercises in Experimental Physiology. *Three times a week, in sections.* Assoc. Professor PORTER.

Chemistry.

General Chemistry. *Twice a week, during first half-year. Twice a week, during second half-year.* Professor HILLS and Mr. BACON.

Practical exercises in the laboratory. *Twice a week during first half-year. Twice a week during second half-year.*

Histology and Embryology.

Lectures. *Once a week, during the first half-year.* Professor MINOT.

Laboratory exercises. *Twice a week, during the first half-year.* Professor MINOT and Drs. SCHAPER and AMES.

Bacteriology.

Eighteen lectures, in second half-year. Professor ERNST.

Practical laboratory work. *Eighteen hours for each student, during the second half-year.* Professor ERNST.

Operative Dentistry.

Lectures. *Once a week.* Professor FILLEBROWN and Dr. POTTER.

Oral Surgery. Lectures and Clinics. Professor FILLEBROWN.

Clinical lectures. *Once a week, for ten weeks.* Dr. CLAPP.

Practical work. *First year: six hours a week, for half-year; second and third years: fifteen hours a week, throughout the second and third years.*

Mechanical Dentistry and Orthodontia.

Lectures. *Once a week.* Professor SMITH.

Practical work. *Eighteen hours a week, throughout the second and third year.*

Orthodontia Clinics. *Once a week throughout the third year.*

Surgery.

Lectures. *Once a week, for one month.* Professor WARREN.

Operative Surgery.

Operations are performed before the students one day each week throughout the year in the Amphitheatres at the Massachusetts General Hospital and the Boston City Hospital.

Operative Surgery and Surgical Anatomy. *Exercises illustrated upon the cadaver twice a week in March and April.* Professor C. B. PORTER.

The Surgical cases at the Eye and Ear Infirmary and at the Boston Dispensary are shown by the surgeons in charge.

Dental Pathology.

Lectures. *Once a week.* Professor BRACKETT.

Oral Anatomy and Physiology.

Lectures and demonstrations. *Once a week.* Asst. Professor STANTON.

Surgical Pathology.

Lectures. *Once a week, for ten weeks.* Dr. MONKS.

Materia Medica.

Lectures. *Once a week.* Professor E. C. BRIGGS.

Neurology.

Lectures. *Once a week, for four weeks.* Dr. TAYLOR.

Crown and Bridge Work and Metallurgy.

Lectures and demonstrations. *Once a week.* Dr. COOKE.

METHODS OF INSTRUCTION.

Anatomy. — Lectures, demonstrations, various practical exercises, including dissection under the direction of the Demonstrator; recitations.

Physiology. — Lectures, recitations, conferences, and practical demonstrations. A laboratory course is given in experimental physiology in which each student makes more than one hundred experiments.

Chemistry is taught mainly by practical work in the laboratory, each student having his own desk and apparatus. Descriptive Chemistry and Qualitative Analysis are taught throughout the year. Besides the laboratory work, there are two lectures every week.

Surgery. — Lectures and recitations in Oral Surgery illustrated by colored drawings and by recent and morbid specimens. All approved instruments and apparatus are exhibited and explained. Operations are performed on the living subject at the hospitals, and upon the dead body. Instruction is given in the use of anaesthetics.

Instruction in Clinical Surgery is given at the Massachusetts General Hospital and the City Hospital every week.

Histology. — Lectures and special laboratory exercises for practical instruction in General Histology, and upon the structure and development of the teeth and mouth.

Bacteriology. — Lectures and practical work in the laboratory.

Operative Dentistry. — The instruction in this department is both didactic and practical. The Professor and other instructors endeavor to demonstrate all known methods of performing operations upon the teeth and other tissues involved.

The treatment of decay, the materials used for filling teeth, the most approved instruments and appliances used in operating upon the teeth, are appropriately discussed. Clinics are held at the Infirmary, and every available means used to make the student practically acquainted with all the modern improvements of this important branch of dental science; but no student will be permitted to operate at the chair until he has by observation and practice on extracted teeth satisfied the Professor of his fitness.

Oral Anatomy and Physiology. — Lectures and recitations upon the minute anatomy of the teeth and their histological development, and the surgical pathology of the tissues in and about the mouth. Material is furnished for the examination of the tissues in a healthy and diseased condition, with instruction in its preparation.

Dental Pathology. — In the beginning of the course of lectures the general principles of Pathology, including Etiology, Nosology, Semeiology, Diagnosis, and Prognosis, are outlined. The various pathological conditions in their relations to one another and their modifications of instruction and function are taught. This prepares the way for the special pathology of the region with which the dentist has most to do. The diseases of the dental and contiguous tissues are considered in detail, with reference to their nature, causes, manifestations and terminations, and their relations with systemic conditions.

Surgical Pathology. — Lectures and recitations embracing the subjects of shock, inflammation, repair, suppuration, ulceration, mortification, embolism, pyaemia, erysipelas, and tetanus.

Materia Medica and Therapeutics. — Lectures, recitations, and demonstrations of crude drugs and their preparations. This is a complete course, as taught in the Medical School to medical students. Remedies are classified, however, to meet the special requirements of the dental practitioner, and the student is particularly instructed upon those remedies which, as a specialist, he will be called upon most to use.

Mechanical Dentistry and Orthodontia. — Lectures and practical work in the laboratory; the manner in which mineral teeth are constructed, the principles and method of carving and furnace-work, and all compounds used for artificial teeth; and the manner in which gold and silver plates are prepared and adapted to the mouth; the use of rubber and other articles as bases. It is the aim to teach not only the mere mechanical processes of Dentistry, but that combination of art with mechanism which enables the practitioner to effect so much in restoring the symmetry of the face and usefulness of the teeth, where they have been lost or impaired by accident or disease.

Orthodontia is taught by lectures and by practical work in the Infirmary. Models of cases are shown, and students are made familiar with the principles underlying the irregularities and the various appliances for their correction.

Crown and Bridge Work and Metallurgy. — Lectures and specimen work in the laboratory followed by practical work in the Infirmary.

Neurology. — A course of four lectures on Neurology will include a brief review of the anatomy and physiology of the nervous system, the anatomy of the trifacial nerve being made the subject of special study.

The nervous disturbances liable to be set up by dental irritation, and, conversely, those likely to produce odontalgia, will be considered as fully as the limited nature of the course permits, special attention being paid to trifacial neuralgia.

Clinical Lectures on Operative Dentistry. — These exercises include operations on patients, demonstrations and exhibition of models, showing the individual methods of the lecturers with descriptions and explanations.

TEXT-BOOKS.

The following works are recommended as text-books, and for collateral reading and consultation: —

Anatomy.

Text-Books. — Gray. Morris. Quain. Wilson, *Holden's Landmarks.* Dwight, *Frozen Sections of a Child.* Treves, *Applied Anatomy.* Dexter, *Anatomy of Peretoneum.*

Collateral Reading. — Harrison Allen, *Anatomy.* Testut, *Anatomie Humain.* Tillaux, *Anatomie Topographique.* Holden, *Osteology.* Humphry, *Human Skeleton.* Morris, *On the Joints.* Weisse, *Practical Human Anatomy.* McClellan, *Regional Anatomy.*

Histology and Embryology.

Text-Books. — Stöhr, *Manual of Histology.* Pierrol, *Histology*, or Schaefer, *Essentials of Histologie.*

Collateral Reading. — Quain, *Anatomy.* Lee, *Microtomest's Vademecum.* Kolleker's, *Gewebelehre* (6th edition). Minot, *Human Embryology.* Marshall, *Vertebrate Embryology.*

Physiology.

Text-Books. — Foster, *Text-book of Physiology. American Text-book of Physiology.* Waller, *Human Physiology.*

Collateral Reading. — Fick, *Compendium der Physiologie.* Halliburton, *Text-book of Chemical Physiology and Pathology.* McGregor-Robertson, *Elements of Physiological Physics.* Landois, *Manual of Human Physiology.* Stirling, *Practical Physiology.* Gamgee, *Physiological Chemistry of the Animal Body.*

General Chemistry.

Text-Books. — Simon, *Manual of Chemistry.*

Collateral Reading. — Miller, Roscoe and Shorlemmer, or Fownes, *Chemistry.* Douglass and Prescott, or Fresenius, *Qualitative Analysis.*

Dental Chemistry.

Text-Book. — Mitchell, *Dental Chemistry.*

Surgery.

Text-Books. — *An American Text-Book of Surgery.* Warren, *Surgical Pathology.* Garretson, *Oral Surgery.*

Materia Medica and Therapeutics.

Text-Books. — Edes, *Materia Medica and Therapeutics.* Potter, *Materia Medica.* Bartholow, *Hypodermatic Medication.*

Dental Pathology.

Text-Books. — Blodgett, *Dental Pathology.* DeBary, *Lectures on Bacteria.* Miller, *Micro-organisms of the Human Mouth.*

Surgical Pathology.

Text-Book. — Billroth, *Surgical Pathology.*

Oral Anatomy and Physiology.

Text-Books. — Black, *Dental Anatomy.* Tomes, *Dental Surgery.* Thompson, *Manual of Comparative Dental Anatomy.* Broomwell, *Anatomy and Histology of the Mouth and Teeth.*

Orthodontia.

Text-Books. — Farrar, *Irregularities of the Teeth.* Talbot, *Irregularities.* Guilford, *Orthodontia.*

Operative Dentistry.

Text-Books. — Kirk, *Operative Dentistry.* Fillebrown, *Operative Dentistry.* Taft, *Operative Dentistry. American System of Dentistry.*

Mechanical Dentistry.

Text-Books. — Essig, *American Text-Book of Prosthetic Dentistry.* Richardson, *Mechanical Dentistry.* Kingsley, *Oral Deformities.* Harris, *Principles and Practice.* Harris, *Dictionary of Dentistry.*

Crown and Bridge Work and Metallurgy.

Text-Books. — Evans, *Crown and Bridge Work. American System of Dentistry*, Essig.

Anaesthesia.

Text-Books. — Anstie, *Stimulants and Narcotics.* Turnbull, *Artificial Anaesthesia.*

CLINICAL ADVANTAGES.

The Dental School is established in Boston, in order to secure those advantages for Clinical Instruction which are found only in large cities.

The clinics of the Dental Hospital afford a sufficient number of patients to give every student abundant practice in all branches of Dentistry throughout the year.

Each student is assigned a chair, and is expected to improve his opportunity and operate three hours every day, five days in the week, giving each student during each year 480 hours of practice in Operative Dentistry.

In the mechanical department the student gives three hours a day for six days each week, giving 576 hours' practice each year.

Dental Statistics. — For the year 1897–98:

Operative department: —

No. of patients treated	7,088
" " Operations	18,154
" " Fillings — Gold	3,619
" " " Amalgam	1,847
" " " Cement	1,897
" " " Gutta Percha	1,689

Other Surgical cases: —

Necrosis	8
Abscess	8
Antrum Disease	2
Staphylorraphy	1

Mechanical department: — Service to patient.

No. of sets of artificial teeth	433
" " " " " " repaired	51
" " splints for fractured jaws	65
" " " " cleft palate operations	4
" " obturators and appliances for cleft palates	8
" " artificial noses	4

Mechanical Laboratory: — Practice work.

Sets of artificial teeth	200
Splints for fractured jaws	16
Obturators for cleft palates	2
Orthodontia appliances	38
Artificial noses	2

Orthodontia: —

No. of sets of teeth regulated	84
" " appliances	156

Crown and Bridge Work: —

No. of Crowns and Caps	109
" " pieces of Bridge Work	39
" " Specimen Crowns and Caps	440
" " Specimen Bridges	114
" " " Porcelain Tips	30
" " Inlays	20

The Museum contains over 3000 specimens, and offers unusual facilities for study of the teeth. The pathological anatomy of the teeth is shown by more than 1600 specimens, among which are over 200 dissected teeth showing formations of secondary dentine in the pulp cavity, and also many other rare specimens of great value.

There are 600 other specimens of human and comparative anatomy, illustrating a wide range of knowledge.

The Massachusetts General Hospital. — During the past year, 4,312 patients were treated in the wards, and 29,181 new patients in the out-patient departments. Patients are received from all parts of the United States and the Provinces, and are visited by the students, with the attending physicians and surgeons, on four days in the week.

The City Hospital. — During the past year, 8,393 cases were treated in its wards, and 20,562 in its various out-patient departments. The medical wards always contain many cases of acute diseases, and changes are taking place constantly. Clinical instruction is given by the physicians and surgeons twice a week.

In these two hospitals, the facilities for witnessing Operative Surgery are unsurpassed. Twice a week operations are performed in the presence of the class. The number of these operations is large, reaching nearly two thousand a year. The variety is great, embracing every surgical disease and injury, including the surgical operations on the eye and ear.

The Boston Dispensary. — Over forty-four thousand patients were treated at this public charity during the past year. A new building has lately been erected at a cost of $50,000, where students have ample and excellent opportunity for seeing practical work in the diagnosis and treatment of cases illustrating the various branches of Medicine and Surgery.

The Massachusetts Charitable Eye and Ear Infirmary. — 22,101 patients were treated at this institution during the past year. These cases present every variety of disease of the ear and eye, and supply a large number of operations.

The Marine Hospital at Chelsea receives from the shipping of the port a large number of patients, who furnish examples of the diseases of foreign countries and of distant parts of the United States. Many cases of venereal disease, in its various forms, are treated annually.

LIBRARIES AND MUSEUMS.

The College Library at Cambridge is open to students and also the Library of the Boston Medical Library Association which has a dental section containing a large and very complete collection of dental literature. It includes the libraries of the American Academy of Dental Science, and the Massachusetts Dental Society.

The Boston Public Library is open to students who are inhabitants of Boston. Students who are not inhabitants of Boston, who have filed bonds at the Treasurer's office, or deposited with the Treasurer the sum of fifty dollars, may also use this Library.

The Dental Museum is in charge of Dr. Waldo Elias Boardman, *Curator*.

It contains over 3000 specimens, and offers unusual facilities for study of the teeth. The pathological anatomy of the teeth is shown by more than 1600 specimens, among which are over 200 dissected teeth showing formations of secondary dentine in the pulp cavity, and also many other rare specimens ot great value. There are 600 other specimens of human and comparative anatomy, illustrating a wide range of knowledge.

Students in the school have access also to the Warren Anatomical Museum.

EXAMINATIONS.

The regular examinations, conducted in writing and orally, are held at the end of each year in June and in September in the following order, viz: —

First Year. — Anatomy, including dissection (2 hrs.), Physiology (3 hrs.), Chemistry (3 hrs.), Histology (1 hr.), Bacteriology (1 hr.). A certificate from the Demonstrator of Anatomy will be required of each student that he has satisfactorily performed the required dissections.

Second Year. — Dental Pathology (2 hrs.), Materia Medica and Therapeutics (2 hrs.), Oral Anatomy and Physiology (3 hrs.), Operative Dentistry (3 hrs.).

Third Year. — Operative Dentistry (2 hrs.), Surgical Pathology and Surgery (3 hrs.), Mechanical Dentistry (2 hrs.), Orthodontia (2 hrs.), Crown and Bridge Work (2 hrs.). These examinations will include actual operations performed during the course, and the preparation of specimens of mechanical dentistry.

Students shall not be entitled to enter the third-year class in practical Operative and Mechanical Dentistry, until they have shown reasonable proficiency in the work of the second year.

Applicants for advanced standing must pass all the examinations of the years which they desire to omit, or furnish proof that they have passed equivalent examinations. Examinations for advanced standing are held in June and September.

No student will be allowed to anticipate the examinations in the regular programme of his year, except by special permission of the Faculty.

Those who fail in any subject may present themselves in that subject again at the next regular examination. The regular examinations for the

year 1898–99 will begin June 1 and September 21, 1899. After two failures to pass in any subject a charge of three dollars will be made for each subsequent examination in that subject.

DIVISION OF STUDENTS.

Students are divided into three classes according to their lines of study and proficiency, and during their last year will receive largely increased opportunities of clinical instruction and of practice in actual operations on the natural teeth and mouth.

In order that the time of study may count as a full year, students of all classes must present themselves within the first week of the academic year and register their names with the Dean.

REQUIREMENTS FOR THE DEGREE.

The degree of Doctor of Dental Medicine (*Dentariae Medicinae Doctor*) may be conferred upon any candidate of adult age, and of good moral character, who has passed *all the required examinations*, and convinced the Professors and Instructors in Operative and Mechanical Dentistry of his ability to meet satisfactorily the requirements of his art. He must also give evidence of having studied Medicine or Dentistry in some recognized school three full years, the last continuous year of which must have been spent at this School. He must also deposit with the Dean, to be placed in the Museum of the School, a specimen of mechanical dentistry, or of practical or pathological anatomy, which he has prepared during the course under the eye of the instructor.

The degree *cum laude* will be given to candidates who have pursued a complete three years' course and passed the examinations with distinguished excellence.

No student may advance with his class until he has passed a satisfactory examination in a majority of the studies already pursued by his class.

The course is a graded one of three continuous years. *Graduates* from other reputable Dental Schools whose Course of Instruction consists of three years of nine months each will be permitted to enter the Senior class after passing the required examinations, or without examination, by special vote of the Faculty.

Candidates for the degree are obliged to apply for the same in writing, on blanks furnished at the Dean's office, on or before *May 30* of the year in which they propose to graduate.

INSTRUMENTS.

With the exception of extracting instruments, lathes, and vulcanizers, each student will be required to furnish his own instruments, and appliances for both laboratory and operating room.

FEES AND EXPENSES.

There are no fees for matriculation, for the diploma, or for the demonstrators. For the first year of a student's membership in the School, the fee is *two hundred dollars*, in two payments of *one hundred and twenty dollars* and *eighty dollars*, at the beginning of the several terms; for the second and third years, *one hundred and fifty dollars* each, in two payments of *one hundred dollars* and *fifty dollars*, at the beginning of the several terms; and for any subsequent year, *fifty dollars*, payable at the beginning of the year.

During the first year there are the following additional expenses: Two dollars for each of the three parts required for dissection; and five dollars per year for chemical material, in addition to the charge for breakage of glass apparatus. A deposit of fifteen dollars is required to cover these charges for chemical material and breakage. The balance of this deposit is returned at the end of the year. During the second and third year a deposit of ten dollars is required to cover any loss or breakage of appliances in the Infirmary and Mechanical Laboratory. The balance of this deposit is returned at the close of the year.

Graduates of recognized Dental Schools, admitted to the courses in Operative and Mechanical Dentistry for the whole or any portion of the academic year, pay a fee of *fifty dollars* for each course. By attending these courses the student does not become a candidate for a degree nor is he entitled to a certificate of attendance.

Of students *who do not pay in advance*, a bond for *three hundred dollars* executed by two sufficient bondsmen, one of whom must be a citizen of the United States, is required. A copy of such bond may be obtained by application to the Bursar* of the University. The bond of the "American Surety Company," if made in a form satisfactory to the Bursar of the University, will also be accepted. To students depositing these bonds, term-bills will be presented a week before the end of the first term, to be paid within two weeks; and also one week or more before Commencement, to be paid on or before the beginning of the next academic year. Such students will be held responsible for the payment

* The Bursar's office is in Wadsworth House, Harvard Square, Cambridge.

of fees until they shall have notified the Dean of their intention to withdraw from the School, and have received their bond from the Bursar. *No degree can be conferred till all dues to the School are discharged.*

No officer or student of the University is accepted as a bondsman.

Whenever a student is obliged to withdraw from the School before the last four weeks of a half-year for no misdemeanor, but for good and sufficient reason, to be determined in all cases by the Faculty, it shall be recommended that he be entitled to a remission of three-fourths of the amount due for that portion of the time during which he receives no instruction, — this remission to date from the reception by the Dean of a written notice of the student's withdrawal from the School.

The student's expenses may be reduced, in accordance with his means, to the standard which prevails in other cities. A list of boarding places at varying prices can be obtained at the rooms of the Young Men's Christian Association, corner of Berkeley and Boylston Streets, and the rooms of the Young Men's Christian Union, No. 48 Boylston Street.

Students, on joining the School, and at the beginning of each School year, must enter their names with the Dean of the Faculty. They are expected to register on the first day of the academic year, *the Thursday following the last Wednesday in September.*

For further information address Dr. Eugene H. Smith, *Dean*, No. 283 Dartmouth Street, Boston, Mass.

Dean's Office: No. 283 Dartmouth Street, Boston.

Office Hours of the Dean: 9 a.m. to 4 p.m.

The following Tabular View illustrates the distribution of studies throughout the year

1898-99, FROM OCTOBER TO FEBRUARY 1.

First Class. — First Term.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Satuday.
9	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C.	Anatomy, L. Prof. Dwight. Lect.-room C. till January.	‡Anatomy, L. Asst. Prof. Dexter. Lect.-room C.	‡Anatomy, L. Asst. Prof. Dexter. Lect.-rm. C.
10	Chemical L. or R. Prof. Hills. Lect.-room A.	Histology. L. Prof. Minot.	Histology, Laboratory. Dr. Scuaper and Dr. Ames.		[2]Histology, Laboratory. Dr. Schaper and Dr. Ames.	Physiol., R. Prof. Bowditch.. Lect.-rm. A
11	Physiology. L. Prof. Bowditch. Lect.-room A.			Bacteriology, L. Prof. Ernst. Beginning Jan. 1.		
11½						Chemical, L. or R. Prof. Hills, Lect.-rm. A.
12	Anatomy, R. Dr. Tenney. Lect.-room C.			Physiology. L. Prof. Bowditch, Lect.-room A.		
2	[2]Histology, Laboratory. Dr. Schaper and Dr. Ames.	[2]Laboratory. Asst. Prof. W. T. Porter. Experimental Physiology. [2]Histology, Laboratory. Dr. Schaper and Dr. Ames.	Chemical Laboratory. N. Grove St. Mr. Bacon.	[2]Histology, Laboratory. Dr. Schaper and Dr. Ames. [2]Laboratory. Asst. Prof. W. T. Porter. Experimental Phpsiology.	Chemical Laboratory. N. Grove St. Mr. Bacon.	[2]Laborat'ry. Asst. Prof. W. T. Porter. Experimental Physiogr'y.

* Anatomy, Bacteriology, Chemistry, and Physiology.
‡ After November.

L. Lecture.
R. Recitation.
C. Conference.
Dem. Demonstration.

The studies of the first year are pursued at the Medical School, corner Boylston and Exeter Streets.

The Laboratory work in Chemistry is pursued at the Dental School, North Grove Street.

[2] In sections.

The following tabular view illustrates the distribution of studies throughout the year

1898-99, FROM FEBRUARY TO JUNE.

First Class. — Second Term.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9		Physiology, Conf. Prof. Bowditch, Lect.-room A.			†Anatomy, L. Asst. Prof. Dexter. Lect.-room C.	†Anatomy, L. Asst. Prof. Dexter, Lect.-rm. C.
10	Bacteriology L. Prof. Ernst.	Chemical L. or R. Prof. Hills. Lect.-room A.		Chemical L. or R. Prof. Hills. Lect.-room A.		Physiol. R. Prof. Bowditch. Lect.-rm. A.
11	Physiology, L. Prof. Bowditch, Lect.-room A.		‡Dr. Upham. Practical Dentistry. Dt'l Hosp., N. Grove St.		Physiology, L. Prof. Bowditch. Lect.-room A.	
12	Dr. Tenney, Lect.-room C.	Physiology, L. Prof. Bowditch, Lect.-room A.		Physiology, L. Prof. Bowditch, Lect.-room A.		*Laborat'y.
2			Chemical Laboratory. N. Grove St. Mr. Bacon.		Chemical Laboratory. N. Grove St. Mr. Bacon.	

* Anatomy, Bacteriology, Chemistry, and Physiology.
Till January.
† After November.
‡ Commencing February 15.

L. Lecture.
R. Recitation.
C. Conference.
Dem. Demonstration.

Second Class.

DENTAL HOSPITAL, NORTH GROVE ST.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Crown and Bridge work and Metallurgy. Dr. Cooke. Clin. Lect. or Dem. Lect.-room B.	Mat. Medica. and Thera., L. Prof. Briggs. Lect.-room B.	Op. Dent., L. Prof. Fillebrown. Lect.-room B.	Op. Dent., L. Dr. Potter. Lect.-room B.	Oral Anat. & Physiology, L. Asst. Prof. Stanton. Lect.-room B.	Mechan. Dentistry or Orthodontia. L. Prof. Smith. Lect.-rm. B.
10	Prac. Oper. Dentistry. Drs. White and Dickinson.	Prac. Oper. Dentistry. Drs. White and Dickinson.	Prac. Oper. Dentistry. Drs. White and Dickinsod.	Dent. Path., L. Prof. Brackett. Lect.-room B.	Prac. Oper. Dentistry. Drs. White and Dickinson.	Orthodontia Clinic. Prof. Smith.
11	Dr. Farrington. Asst. Dem.	Dr. Farrington. Asst. Dem.	Dr. Farrington. Asst. Dem.	Prac. Oper. Dentistry. Drs. White and Dickinson. Dr. Farrington. Asst. Dem.	Dr. Farrington. Asst. Dem.	Prac. Mech. Dentistry. Lab. Dr. Moriarty. Dem.
2	Pract. Mech. Dentistry. Dr. Chase. Dr. McMeekin. Asst. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	Pract. Mech. Dentistry. Dr. Chase. Dr. McMeekin. Asst. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	Pract. Mech. Dentistry. Dr. Chase. Dr. McMeekin. Asst. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	Pract. Mech. Dentistry. Dr. Chase. Dr. McMeekin. Asst. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	Pract. Mech. Dentistry. Dr. Chase. Dr. McMeekin. Asst. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	
4					Recitation. Mat. Medica. Dr. Wyllie.	

Third Class.

DENTAL HOSPITAL, NORTH GROVE ST.

	Monday.	Tuesday.	Wednesday.	Thursday.	Friday.	Saturday.
9	Crown and Bridge work and Metallurgy. Clin. Lect. or Dem. Dr. Cooke. Lect.-room B.	Surg. Path. Dr. Monks. 10 lectures. com. Oct. 4. Lect.-rm. A. Op. Dent., L. or Dental Jurisprudence, com. Jan. 10. Dr. Clapp. ‡Mechanical Dent. Clin. Lect. Private Lab. Dr. J. D. Dickinson. com. April 4.	Op. Dent., L. Prof. Fillebrown. Lect.-room B.	§Op. Dent. Clin. Lect. Dr. Werner. *Dr. Stoddard. Mechan. Dentistry L. or Dem. com. Feb. 2.	*Neurol'gy, L. Dr. Taylor. 4 lectures com. Feb. 3. Lect.-room A. Prac. Mechan. Dentistry. Lab. Dr. Cross.	Mechan. Dentistry and Orthodontia. L. Prof. Smith. Lect.-rm. B.
10 to 1	Prac. Mechan. Dentistry. Lab. Dr. Eldred. Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Prac. Mechan. Dentistry. Lab. Dr. Burnham. Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Prac. Mechan. Dentistry. Lab. Dr. Haley. Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Prac. Mechan. Dentistry. Lab. Dr. Bixby. Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.	Orthodontia Clinic. Prof. Smith. Prac. Mech. Dentistry. Lab. Dr. Moriarty. Dem. Dr. Hayden. Asst. Dem.
2 to 5	Pract. Op. Dentistry. Dr. Blaisdell. Dr. Paul. Dem. Dr. Wyllie. Instructor. Extracting & Anasthesia.	Pract. Op. Dentistry. Dr. Taft. Dr. Paul. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	Pract. Op. Dentistry. Dr. Eddy. Dr. Paul. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	Pract. Op. Dentistry. Dr. Bradley. †Surgery, L. Prof. Warren. Dr. Paul. Dem. Dr. Wyllie. Instructor. Extracting & Anasthesia.	Pract. Op. Dentistry. Dr. Boardman. Dr. Paul. Dem. Dr. Wyllie. Instructor. Extracting & Anesthesia.	

* During second half-year. † Medical School. ‡ In sections. § Commencing Nov. 6.

LIST OF GRADUATES

OF

THE DENTAL SCHOOL OF HARVARD UNIVERSITY.

1869.

Thomas Fillebrown, M.D. (*Medical School of Maine*),	Boston.
Robert Tanner Freeman,	*1873.
Thomas Haley,	*1892.
Edward Page, M.D. (*Harvard*),	Charlestown.
Samuel Julius Shaw,	Boston.
Joseph Jenkins Vincent,	Brockton.

1870.

John Thomas Codman,	Boston.
William Francis Davis,	Adams.
George Franklin Grant,	Boston.
Samuel Franklin Ham,	Portsmouth, N. H.
Daniel Grout Harrington,	Boston.
Thomas Wilson Hogue,	Bournemouth, England.
Timothy Otis Loveland,	Boston.
William Henry Noyes,	*1895.
George Luther Parmele, M.D. (*L. I. College Hospital*),	Hartford, Conn.
William Henry Thornton,	*1897.
Frank Edward Ward,	*1894.
Charles Wilson,	Boston.

1871.

Charles Monroe Bailey,	Minneapolis, Minn.
George Hayward Baker,	Woonsocket, R. I.
Charles Edwin Hussey,	Biddeford, Me.
Albert Benton Jewell,	Newton.
Philip Benjamin Laskey,	Marblehead.
William Pitt Morgan,	Saginaw, Mich.

* Deceased.

1872.

George Henry Ames,	Providence, R. I.
Sidney Chapin Bancroft,	Leavenworth, Kan.
Charles Samuel Bartlett,	Boston.
James Dias Bell,	London, England.
Edwin Perley Bradbury,	Montecito, Cal.
James Adkins Clark, M.D. (*Dartmouth*),	*1875.
James William Curtis,	Brunswick, Me.
George William Geist,	Frankfürt am Main, Germany.
John Warner Keyes,	Boston.
George Edward Langdon Noyes,	Newburyport.
Frederic Miller Robinson,	Boston.
Samuel Saiza Silva,	Southbridge.
Benjamin Henry Torrens,	Fredericton, N. B.
Winslow Lewis Tucker, A.B., A.M. (*Harvard*),	Boston.
Cecil Porter Wilson,	Boston.

1873.

Charles Albert Brackett,	Newport, R. I.
Edward Augustus Dimmick,	Bridgetown, Barbadoes, W. I.
George Henry Knowles,	Central Falls, R. I.
William Herbert Rollins, M.D. (*Harvard*),	Boston.
Charles Herman Wolff,	Worms am Rhein, Germany.

1874

Willis Porter Battles,	Providence, R. I.
Edward Dwight Carr,	Kansas City, Mo.
Edward Eastman Frost,	Worcester.
George Leonard Mason,	*1895.
Horatio Cook Meriam,	Salem.
Frederic Augustus Merrill,	Boston.
Eugene Hanes Smith,	Boston.
Franklin Baker Stewart,	*1877.

1875.

Forest Greenwood Eddy,	Providence, R. I.
John Willard Hazelton,	Peabody.
Joseph Traverse Morong,	*1880.
Wilbur Bates Parker,	Boston.
Eben Francis Whitman,	Boston.

1876.

Thomas Bradley,	New York, N. Y.
Oscar Berlin Brann,	Washington, D. C.
George Peters Caldwell, M.D. (*Harvard*)	Boston.
George Cunningham, B.L., B.SC., B.A., M.A. CANTAB., L.D.S. (*Eng.*),	Cambridge, England.
Edgar Morton Jewett,	Portsmouth, N. H.
George Otis Lawrence,	San Francisco, Cal.
Jesse Robbins,	Salem.
Charles Claude Rogers, L.D.S. (*Eng.*), M.R.C.S. (*Eng.*),	London, England.
Ezra Fletcher Taft, A.B. (*Amherst*),	Cambridge.
Julius George William Werner,	Boston.

1877.

Allston Gray Bouvé,	Boston.
Henry Francis Dunkel,	Gunnison, Col.
Edward Bigelow Hitchcock, M.D. (*Dartmouth*),	Newton.
Washburn Edward Page,	Boston.
Frank Perrin,	Boston.
Lucius Tracy Sheffield,	New York, N. Y.
Richard Theodore Stack, M.B. (*Dublin Univ.*), A.B., M.D., L R.C.S. (*Edin.*), C.HM. (*Dublin Univ.*), L. and L.M., F.R.C.S.I., L.D.S., R.C.S. (*Eng.*),	Dublin, Ireland.
Frank Herbert Williams,	Boston.

1878.

Edward Cornelius Briggs, M.D. (*Harvard*),	Boston.
Joseph Mason Bright,	Bangor, Me.
Harry Fairfield Hamilton, B.S. (*Maine State Coll.*),	Boston.
Manning Kennard Rand,	Boston.
Daniel Frank Whitten,	*1891.
Herbert Chauncey Woodward,	Paris, France.

1879.

Frederic Eugene Banfield,	Boston.
Walter Bryant Currier,	Maynard, Mass.
Thomas Clarence Gillingham,	Sharon.
Edward Samuel Niles,	Boston.
John William Smith,	*1889.

1880.

Frederick Eugene Ayer,	San Francisco, Cal.
Albert James Colgan,	Boston.
Arthur Ernestine Lewis,	Plymouth.
John Scott Mason,	Boston.
Virgil Clarence Pond, B.P. (*Brown Univ.*),	Boston.

1881.

William Parker Cooke,	Boston.
George Alfred Dennett,	Boston.
James Alfred Reilly,	Boston.
Edmond Rosenthal,	Brussels, Belgium.
Otis Franklin Smith,	Boston.

1882.

Dwight Moses Clapp,	Boston.
George Eubank,	Birmingham, Ala.
Edward Earl Hopkins,	Boston.

1883.

Elliot Bowdoin Bacheller,	Lowell.
Edwin Carter Blaisdell,	Portsmouth, N. H.
Frederic William Hill,	Oxford, England.
Edward Albert Lowe,	Lowell.
Samuel Sterrett Macfarlane,	Frankfürt am Main, Germany.
Myron William Smith,	*1886.
Joseph Ellsworth Waitt,	Boston.
George Arthur Williams,	Liverpool, England.

1884.

Charles Lincoln Abbott,	Kansas City, Mo.
Frederic William Bevington,	Lawrence.
Henry Parsons Cooke,	Worcester.
Charles Percy Curtis,	Rome, Italy.
Arthur Crowell Gerry,	Lowell.
George Henry Gerry,	Providence, R. I.
Charles Franklin MacDonald,	Boston.
Edward Albert Stanley,	New Bedford.
Jere Edmund Stanton, M.D. (*Bellevue*),	Boston.
Alfred Horace Tester, L.D.S., R.C.S. (*Eng.*),	Tunbridge Wells, England.

1885.

Charles Henry Abbot,	Berlin, Germany.
Edward Merrill Currier, M.D. (*Heidelburg*), M.D. (*Boston Univ.*),	Boston.
Charles Eugene Estabrook,	So. Boston.
Thomas James Giblin,	So. Boston.
Henry Webster Gillett,	Newport, R. I.
Walter Harrison, L.D.S., R.C.S. (*Eng.*),	Brighton, England.
William Henry Potter, A.B. (*Harvard*),	Boston.
James Shepherd,	Boston.

1886.

Lyman Fisher Bigelow,	Boston.
Waldo Elias Boardman,	Boston.
William Thomas Borton,	St. Petersburg, Russia.
Frederick Bradley,	Newport, R. I.
Henry Michael Clifford,	Boston.
Isidor Fürst,	Hamburg, Germany.
Leonard Nutter Howe,	Boston.
Frederic Milton Mayo,	Boston.
Wilhelm Leopold Olander,	*1896.
Charles Hutchins Taft, A.B. (*Harvard*),	Boston.
Henry Lauriston Upham,	Boston.

1887.

Peter Crank, L.D.S., R.C.S. (*Eng.*),	Adelaide, So. Australia.
Carroll Ketcham Huntley,	Providence, R. I.
Leslie Maxwell, L.D.S., R.C.S.I.,	Tunbridge Wells, England.
Edwin Leslie Shattuck,	London, England.
Frank Ellsworth Sprague,	Nashua, N. H.
Henry James Stark,	*1889.
Edgar Fremont Stevens,	Medford.
Arthur Henry Stoddard,	Boston.
Charles Henry Veo,	Boston.
John Daniel Wilson,	Boston.
Harry Eugene Windsor,	Providence, R. I.
Thomas Weston Wood, A.B., A.M. (*Brown Univ.*),	Boston.
Harvey Warner Woodberry,	Duluth, Minn.
Charles Frederick Wright, L.D.S., R.C.S. (*Eng.*),	London, England.

1888.

George Pierce Geist,	Frankfürt am Main, Germany.
Frederick Payne Graves,	Saco, Me.
Ellis Proctor Holmes,	Stoughton.
Henry Allen Kelley,	Portland, Me.
Thomas George Read, L.D.S., R.C.S. (*Eng.*),	London, England.
Frederick Arnold Stevenson, L.D.S. (*Prov. Quebec*), D.D.S. (*Bishops College, Prov. of Quebec*),	Montreal, Canada.
Charles Bryant Titcomb.	San Francisco, Cal.

1889.

Fred. Anthony Arnold,	Newport, R. I.
Henry Jefcins Borton,	St. Petersburg, Russia.
Charles Poor Briggs, A.B., M.D. (*Harvard*),	Boston.
William Frederick Gay,	Boston.
Paul Grünewald,	Frankfürt am Main, Germany.
Frank Irving Hammond,	Providence, R. I.
Frederick Sylvanus Hopkins,	Boston.
Daniel Albion Jones, B.A., M.D. (*Yale*),	New Haven, Conn.
William Russell Jones,	Wakefield.
William Lombardino,	Berlin, Germany.
Patrick William Moriarty,	Boston.
William Curren O'Leary,	New York, N. Y.
Arthur Henry Osgood, A.B. (*Harvard*),	Boston.
Caleb Heath Shepard,	*1892.
Frederic Ervin Twitchell,	Willmar, Minn.
Eugene Jakob Wetzel,	Mülhausen, Alsace, Germany.
James Robert White,	No. Adams.

1890.

Sidney Roland Bartlett, S.B. (*Mass. Inst. of Tech.*),	Colorado Springs, Colo.
Harry Oliver Bixby,	No. Cambridge.
Benjamin Howard Codman,	Boston.
Edwin Hartley Dixon,	New York, N. Y.
Arthur Warren Eldred,	Worcester.
Charles Manning Keep, M.D. (*Harvard*),	Boston.
Charles Elmer Luce,	Stuttgart, Germany.
Kotai Masuda,	Yokohama, Japan.
Arthur Judson Oldham,	Boston.
Hermann Paal,	Dresden, Germany.
Charles Ernest Perkins,	Brockton.
Oscar Pulvermacher,	Berlin, Germany
Edward Rolfe,	Lexington.
Elbridge Abbott Shorey,	Dover, N. H.
Frank Turner Taylor,	South Boston.

1891.

Paul Henri Jules Boitel,	Vevey, Switzerland.
Georges Antoine Brouillet,	Boston.
Alexander Humboldt Fisher,	Boston.
Adin Albert Goldsmith, D.D.S. (*Univ. of Penn.*),	London, England.
Amos Irving Hadley,	Boston.

George Meads Holden, Hackettstown, N. J.
Shimpei Nobutsune Isawa, Tokyo, Japan.
George Martin, D.D.S. (*Univ. of California*), Berlin, Germany.
Clarence Moore Noble, *1897.
Hugh Owen, Auckland, New Zealand.
Joseph Totten Paul, Boston.
George Barnum Perry, Chicago, Ill.
William Fuller Sharp, D.D.S. (*Univ. of California*), San Francisco, Cal.
Fred Homer Woodcock, *1895.

1892.

Edward Stanley Bryant, Palmer.
Allen Stanley Burnham, Gloucester.
Charles Edward Bugbee Chase, So. Framingham.
Willard Eben Curtice, Boston.
Kirk Addison Davenport, D.D.S. (*Univ. of Penn.*), London, England.
Ernest Frederick Gabell, Red Hill, Surrey, England.
Theodore Hallett, Boston.
Herbert Frederic Hill, London, England.
Albert Edward Hulme, Andover.
Richard Carl Moritz, London, England.
Harry Snow Parsons, M.D. (*Bowdoin*), Boston.
Henry Robinson Peach, Salem.
Henry Edward Rose, L.D.S., R.C.S.I. Birmingham, England.
Nathan Prindle Wyllie, Boston.

1893.

Charles Oscar Cummings, A.B. (*Dartmouth*), *1894.
Frank Roberts Dickerman, Taunton.
George William Field, Jr., L.D.S., R.C.S.I. Boston.
George Rufus Gray, D.D.S. (*Univ. of Penn.*), Worcester.
Joseph Geiger Grove, Jr. Waverly, Ohio.
Max Hanau, Nüremberg (Bavaria), Germany.
Arthur John Lamere, Fitchburg.
Richard Pearson, M.B., B.S. (*Durham Univ.*),
M.R.C.S., L.R.C.P., R.C.S. (*Eng.*), London, England.
Edward Melville Quinby, M.R.C.S., L.R.C.P. (*Eng.*), Liverpool, England.
Charles Hudson Quirk, M.D. (*Harvard*), Buenos Ayres, Argentine Rep.
Frederick King Richardson, New York, N. Y.
William Bertram Sansom, L.D.S., R.C.S. (*Eng.*), London, England.
John Joseph Smith, *1894.
Frank Merrett Wilkinson, Perth, West Australia.

1894.

Eugene Everett Arnold,	Warren, R. I.
Joseph Bergin Belliveau,	Boston.
Joseph Boylston,	Portsmouth, N. H.
Thomas Bernard Hayden,	Boston.
Jay Reuben Holton,	St. Louis, Mo.
Gustave Joseph Inderbitzen,	Bern, Switzerland.
Arthur Jackson,	Boston.
Frederick William Percival,	Peterborough, England.
Thomas Edward Quinn,	Boston.
Fred Gibson Robbins, M.D. (*Harvard*),	Boston.
Arthur Galusha Smith,	No. Peoria, Ill.
George Lund Taft, PH.B., A.B. (*Boston Univ.*),	Cambridge.
Louis Napoleon Veo,	Boston.
William Joseph Walton,	Dorchester.

1895.

Ernst Sixten Arvedson, L.D.S. (*Sweden*),	Stockholm, Sweden.
Edward Doane Barrows,	Berlin, Germany.
Robert Lander Bartlett,	Lynn, Mass.
Clarence Augustus Carr, A.B., A.M. (*Brown Univ.*),	Newport, R. I.
Walter Strout Coleman,	Portland, Me.
Dwight Ward Dickinson, B.S. (*Boston Univ.*),	Berlin, Germany.
Percy Edgelow, M.R.C.S. (*Eng.*), L.R.C.P. (*Ed.*),	London, England.
James Austin Furfey,	Boston.
Marquis D. Littig, D.D.S. (*Univ. of Penn.*), M.D. (*Tufts*),	Boston.
Frederick Everett Meader,	Boston.
Richard Dyer Milliken,	Saco, Me.
Robert Tucker Moffatt,	Boston.
Henry Clinton O'Brien,	Boston.
Patrick Henry O'Connor,	Seattle, Wash.
Francis Wheeler Rice,	*1897.
Leopold Scheuermann,	Berlin, Germany.
Arthur H. Woodcock,	Boston.

1896.

Francis Hornes Barnard, Jr.,	Boston.
Edgar Casper Bienemann,	London, England.
Asher Harriman St. Clair Chase,	Everett.
Ernest Howard Chute,	Dedham.
Charles Winfield Crane,	Lynn.

Harold DeWitt Cross,	Nashua, N. H.
John Walter Emery,	West Medford.
Edwin Linwood Farrington,	Lowell.
Adelbert Fernald,	Boston.
Guy Webster Gilbert,	Andover.
Harry Sargent Gilman,	Boston.
Harry West Haley,	Boston.
Harvey Winchester Hardy,	Boston.
Harry Morrill Haynes,	Boston.
Robert John McMeekin,	Boston.
James Francis Martin,	Springfield.
Edward Wakefield Matthews,	Yarmouth.
Charles Everett Monroe,	Atlantic.
Thomas Kennedy Ross,	Fitchburg.
Philipp Johann Alexander Stadelmann,	Frankfürt amMain, Germany.
Walter Irving Sweet,	Providence, R. I.
Charles Frederick York, Jr.,	Rockport.

1897.

Frederick Wilde Allen,	Braintree.
Frank Pliny Barnard,	Oxford.
Roy, Keney Belden,	Oakland, Cal.
Harry Ernest Belyea,	Brookline.
Charles William Berry, B.S. (*Dartmouth Coll.*),	Somerville.
Ralph Vincent Blake, PH.G. (*Mass. Coll. of Pharmacy*),	Boston.
Harold Edgeworth Davis,	San Francisco, Cal.
Robert Irving Davis,	Chelsea.
Walter Sheldon Davis,	Worcester.
John Dana Dickinson,	Boston.
Harold Watson Estey,	Boston.
Walter Joseph Faunce,	Boston.
George Lincoln Forest.	Gardner.
Leo Green, A.B. (*Coll. of City of New York*),	New York, N. Y.
George True Greenwood,	Fitchburg.
Francis Herbert Harding,	Winchester.
Edward Everett Henry,	Wellesley Hills.
Arland, Martin Kenney,	Dorchester.
Charles Ansel Lakin,	Worcester.
William Lunan, Jr.,	Southbridge.
Raimond Edgar McDonnough,	Boston.
Thomas Richard McMahon,	Charlestown (Boston).
Joseph Thomas Mooney,	Boston.
Charles Erwin Parkhurst, A.B. (*Boston Univ.*),	Somerville.

Harry Carlton Spencer, Newton.
Joseph Herman Stromier, L.D.S. (*Coll. of Physicians and Surgeons, Glasgow, Scot.*), D.D.S. (*Univ. of Mich.* Glasgow, Scotland.
David Pickard Thomas, Boston.
Clarence Bartlett Vaughan, Boston.
Frank Hosea Veo, Boston.
George Alfred Warren, Newton Highlands.
Walter Harris White, Boston.
Herbert Clarence Woodman, Boston.

1898.

Harry Roscoe Allen, S. Willington, Conn.
Ernest Harold Christopher Bailey, R.D.S. (*Melbourne D. Coll. Oral Hospital*), Ballarat, Australia.
Francis William Bailey, R.D.S. (*Melbourne D. Coll. Oral Hospital*), Ballarat, Australia.
Lawrence Wills Baker, Boston.
Charles Boardman Burnham, Beverly.
John Alexander Counter, Kingston, Can.
Frank Crowther, Roxbury.
Joseph Daley, Boston.
Eliot Taylor Dickinson, B.S. (*Boston Univ.*), Amherst.
Giles Dowling, Allston.
Paul Hill Duckworth, Lowell.
Stewart Cheselton Fisher, Denison, Tex.
Harry Linwood Grant, A.B. (*Brown Univ.*), Boston.
Timothy Hanrahan, Boston.
George Herbert Harding, L.D.S., R.C.S. (*Eng.*), Huyton, Liverpool, Eng.
Ernest Jewett Hart, Chelsea.
J. Churchill Hindes, Vergennes, Vt.
Horace Leonard Howe, E. Pepperell.
Evans Almon Leonard, Glover, Vt.
Murdock Campbell Smith, M.D. 1888, D.D.S. 1887 (*Howard Univ.*), Lynn.
Frederick Augustus Leopold Schuckmann, Herford, Westphalia, Germ.
Oliver Perry Wolff, No. Weymouth.
Ernest Blake Williams, Malden.
William Saul Louisson, D.D.S. (*Univ. of Penn.*), San Francisco, Cal.
Frank Martin Lynde, A.B. (*Tufts Coll.*), Williamstown, Vt.
Michael Francis McDermott, M.D., C.M. (*Queens Univ., Kingston*), Kingston, Can.

John Norman Macdonald, L.D.S.,	Dunedin, N. Z.
Elmer Joseph Marston,	Farmington, Me.
Louis Frederic Mongeon,	Blackstone.
Charles Edward Murphy,	Haverhill.
William Morse Parker,	River Hebert, N. S.
James Avard Richan,	E. Boston.
Frank Bowker Siears,	Boston.
William Daniel Squarebrigs,	Bay Fortune, P. E. I.
Wilfred Harlow Starratt, A.B. (*Acadia Univ.*),	Forest Hills.
John Talbot Timlin,	Melrose.
Albert Everett Tuck,	Gloucester.

EXAMINATION PAPERS.

(Annual Examinations, 1898.)

First Year's Studies.

FIRST YEAR ANATOMY. — Professor DEXTER.

1. Describe the orbit of the skeleton.
2. Describe the axillary artery, its relations and branches.
3. Describe the male urethra, including its structure.
4. Describe the superficial nerves of the cervical plexus.

PHYSIOLOGY. — Professor BOWDITCH.

[Number the answers to the questions without copying the questions themselves. Do not number the pages of the book. Answer the questions in order, writing on each page in succession.]

1. What does the feeling of hunger indicate?
2. Describe briefly the digestion and absorption of proteid foods.
3. How may the relative volume of the blood-globules and the blood-plasma be determined?
4. Of what importance is the elasticity of the arteries?
5. Explain the relation between the size of an animal and its power of locomotion.
6. What are the most important functions of the cilia?
7. What is meant by the "internal secretion" of glands? Give examples.
8. Give evidence that the katabolism associated with nerve activity must be very slight.
9. What is the effect on the higher animals of an extensive destruction of the cerebral cortex?
10. What are the functions of the retinal rods and cones?
11. What are the respiratory functions of the nose?
12. Explain the significance of the "vital capacity."
13. Describe an experiment to demonstrate the "refractory period" of the heart.
14. Describe an experiment to show the difference between the anterior and the posterior spinal roots.

GENERAL CHEMISTRY. — Professor W. B. Hills.

1. Define: deliquescence; efflorescence; water of crystallization; valence.

2. How much sodic chloride must be used to make 146 grams of hydrochloric acid gas?

$$2\,NaCl + H_2SO_4 = Na_2SO_4 + 2\,HCl.$$

3. Complete the following half equations: —

$$Zn + H_2SO_4 =$$
$$FeS + H_2SO_4 =$$
$$NaNO_3 + H_2SO_4 =$$
$$KClO_3\ (+\ \text{heat}) =$$
$$NH_4OH + H_2S =$$

4. Properties and uses of hydrogen peroxide?

5. Manufacture, properties and uses of nitrous oxide?

6. Coal gas and water gas. Differences in composition? Is there any difference in their action on the system? If there is, upon what does the difference depend?

7. Manufacture, properties and uses of sulphuric acid?

8. Aluminum. Occurrence in nature? Properties? Uses?

9. Gold. Occurrence in nature? Properties? Uses?

10. What are isomeric compounds? How is the phenomenon of isomerism explained?

11. To what class of organic compounds does glycerine belong? In what substances is it found, and in what form does it exist in these substances?

12. Sources of hydrocyanic acid and the cyanides? Properties and uses of potassic cyanide?

13. Sources of paraffin; oxalic acid; tartaric acid; carbolic acid; alcohol?

14. Group reagents for the metals (in the order in which they are added in analysis), and the metals precipitated by each? Why must they be applied in the order given?

15. What tests are employed in the preliminary examination of solids?

$$Na = 23, \quad Cl = 35.5.$$

BACTERIOLOGY. — Professor Ernst.

1. What characteristics are to be noted in the examination of the colonies in plate cultures?
2. What is Gram's method of staining, and why is it of value?
3. What are the appearances of the bacillus of tuberculosis under cultivation? Describe the methods of staining.
4. What are the anaërobic bacteria? Describe one.

HISTOLOGY. — Professor C. S. Minot.

[Three specimens numbered to correspond with the questions below are given to each student. Students are expected to make simple drawings, sufficient to show that they have correctly identified the parts.]

The specimens were: — 1, Human skin (sole of foot); 2, Trachea and Oesophagus of Guinea pig (cross section); 3, Lower jaw of human embryo (frontal section).

1. What is the organ? Draw the layers composing it with low power and name the different parts.
2. Distinguish Trachea and Oesophagus. Draw a piece of the wall of each with high power and name the different parts.
3. Cross section of the lower jaw of human embryo. Search for an enamel organ, draw with low power and name the different parts.

Second Year's Studies.

DENTAL PATHOLOGY. — Professor Brackett.

1. Illustration of communicable and non-communicable disease.
2. The active agents in the etiology of communicable disease.
3. The diagnosis of acute inflammation of the pulp in a tooth with perforating caries.
4. The influence upon the teeth of habitual acid dyspepsia.
5. In what cases may transillumination be helpful in diagnosis?
6. Adenoid growths.
7. Illustrations of new growths in the mouth occasioned by mechanical irritation.
8. Chemical condition of the oral fluids in mouths in which calculus accumulates in large quantities.
9. The influence of extreme old age upon bone and tooth texture.
10. The usual history of alveolar abscess.
11. What may be causative influences in extreme sensitiveness of the teeth?
12. Evidences that one side of the mouth is not used in mastication.
13. In what cases may heat tests be helpful in diagnosis?
14. What circumstances should induce mindfulness that certain permanent teeth may never appear?
15. The quality of the teeth in precocious dentition.

OPERATIVE DENTISTRY. — Dr. Potter.

1. Describe in detail what use can be made of absorbent cotton saturated with varnish.

2. How is gutta percha prepared for a filling material? For what cases is it especially adapted? What are its disadvantages as a filling material?

3. Write the formula of an amalgam, and state your reasons for the metals used, and their proportions.

4. The use of tin-foil as a filling material; to what cases is it applicable, and how is it worked?

5. Name three kinds of matrices which can be made by the operator, and describe how they are made and adjusted.

6. How would you insert a gold filling in the corono-mesial cavity of a bicuspid?

7. Given an exposed pulp; what considerations would guide you in its treatment?

8. How may a sensitive pulp be removed?

9. How would you treat approximal cavities in the temporary molars?

10. From a blank piece of steel, how would you make a cow-horn spoon excavator?

MATERIA MEDICA AND THERAPEUTICS. — Professor Briggs.

1. Hydrochloric acid.
2. Therapeutics of astringents.
3. Iodine.
4. Treatment of shock.
5. Aconite.
6. Name and describe two antiseptics.
7. Why not use morphine in pulpitis?
8. Two analgesics.
9. Use of cathartics in inflammation.
10. Cocaine.

ORAL ANATOMY AND PHYSIOLOGY. — Asst. Professor Stanton.

1. What benefit do we derive from a study of the lower forms of life?
2. Why are teeth termed "dermal appendages"?
3. Why does a tumor outside the Antrum cause a distortion of "the bite", or occlusion of the teeth:
4. Give the number of ways bone may be found. Describe them.
5. Describe the formation of the Enamel organ, Detine germ, and origin of the Cementum.
6. What is Meckels cartilage? What is its formation and what becomes of it?
7. How is room made for the additional twelve permanent teeth?
8. How many kinds of dentine are there? Give the characteristics of each kind.
9. How does embryonic tissue differ from adult? Name and describe the characteristic cells.
10. Describe the Inferior Maxillary and its articulation.

Third Year's Studies.

CROWN AND BRIDGE WORK AND METALLURGY.
Dr. W. P. Cooke.

1. Give some of the merits and demerits of crowns held by friction, — screw, cement, band.

2. Give several ways of obtaining an accurate fit of a Logan post-crown; also several ways of making a Logan banded crown.

3. How would you make a porcelain-faced banded crown without the band on the labial side?

4. How would you replace a superior lateral incisor, the central incisor being a pulpless tooth, without cutting off the central incisor?

5. What bearing does the force used in mastication have upon the insertion of crowns and bridges?

6. Give the merits and demerits of permanent and removable crowns and bridges.

7. How would you insert a bridge on the lower jaw, the second bicuspid and first molar being absent, and the second molar being tipped forward?

8. How would you repair a bridge broken in the middle which extends from the superior second molar to the cuspid of the same side?

9. How would you replace the four lower incisors, the lower cuspids being tipped towards each other?

10. Give the method of extraction, properties, and dental uses of gold, bismuth, mercury. Give the composition of gold and silver plate, of german silver and soft solder.

MECHANICAL DENTISTRY. — Professor Smith.

1. Describe the making of an artificial denture from the impression, using:

a) Vulcanite as a base.
b) Celluloid as a base.
c) Continuous gum.

2. In what way do the bodies and enamels used in the continuous gum process differ from the material used in the making of porcelain teeth?

3. Describe the process of making an upper partial gold case clasping the second bicuspid on either side and supplying the first bicuspids and centrals.

4. How take a lower impression with plaster, of a mouth containing the second molars — first bicuspids and centrals standing at different angles?

5. Describe the process of making a lower partial gold case for a patient with the eight anterior teeth remaining.

6. What are some of the difficulties met with in taking the occlusion? How avoided?

7. Under what conditions and how would you use the spiral spring?

8. What objections to the use of silver or platinum for clasps?

9. The cause and treatment of hyperaemia of the tissue underlying artificial plates.

10. What methods are used other than the vacuum chamber for producing adhesion of a plate to the vault surface of the mouth?

OPERATIVE DENTISTRY AND ORAL SURGERY.

Professor Fillebrown.

1. *a*) Name the differences between transplanting, replanting and implanting teeth. *b*) Describe the essential points of the operation for each.

2. *a*) Describe perecementitis and its connection, if any, with alveolar abscess. *b*) Give treatment of acute abscess and chronic abscess.

3. *a*) Differentiate simple from phagedenic perecementitis. *b*) Describe treatment of phagedenic perecementitis.

4. *a*) What dangers attend the extracting of teeth? *b*) Describe the methods of controlling hemorrhage.

5. *a*) Name the signs of anaesthesia, first, nitrous oxyd; second, ether; third, chloroform. *b*) Signs of danger with each.

6. *a*) Name the causes of the diseases of the antrum, naming first the most common cause. *b*) Describe the best methods of treatment. *c*) What are the probabilities of a cure?

7. *a*) What is the source of epithelioma? *b*) Name kinds. *c*) What is the proper treatment?

8. *a*) Describe necrosis of the maxilla. *b*) Describe caries of bone. *c*) How treat each?

9. *a*) What is cleft palate? *b*) What is the cause?

10. *a*) Give general treatment of wounds of the mouth. *b*) Can wounds of the mouth and connecting parts be kept asaptic?

ORTHODONTIA. — Professor Smith.

1. How determine whether to spread an arch or extract to gain room for the correction of an irregularity?

2. What evils result from the premature extracting of the temporary teeth?

3. *a*) Describe a case requiring a permanent stay plate.
   b) Describe the adjustment of a permanent and fixed stay plate.

4. What forms of irregularity require attention at an early age?

5, What are some of the causes for the excessive flattening of the palate?

6. Describe the different appliances for spreading the jaw.
7. *a*) How is torsion of the teeth performed?
   b) What danger attends rapid torsion?
8. Describe the mechanical forces used in the correction of irregularities.
9. The cause and treatment of migration of the teeth.
10. What conditions of irregularity require the extracting of the cuspid?

SURGICAL PATHOLOGY. — Dr. Monks.

1. The treatment of Acute Inflammation.
2. The causes of ulceration.
3. Describe the different degrees of Burns.
4. Describe an attack of Simple Erysipelas, and outline the treatment which such a case would call for.
5. In what different forms, and in what portions of the body may tuberculosis manifest itself?
6. Mention some of the characteristics of the initial lesion of Syphilis.

SURGERY. — Professor Warren.

7. To what is the deformity known as hair-lip due? What is the operation for its relief?
8. What preparation should the mouth undergo preparatory to a surgical operation involving anesthesia? Why is preparation necessary?
9. What are some of the varieties of odontoma?
10. What is stomatitis?